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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,280		11/24/2003	Larry E. Curtis	SPL-45/47181-00282USPT	6392	
23569	7590	10/04/2005		EXAMINER		
SQUARE			LA, ANH V			
INTELLECTUAL PROPERTY DEPARTMENT 1415 SOUTH ROSELLE ROAD			MENT	ART UNIT	PAPER NUMBER	
PALATINE, IL 60067			2636			

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	065 - A - 1' 0	10/722,280	LARRY E. CURTIS					
	Office Action Summary	Examiner	Art Unit					
		Anh V. La	2636					
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with	the correspondence addi	ress				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the may ad patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA' 1.136(a). In no event, however, may a reply of will apply and will expire SIX (6) MONTHS ute, cause the application to become ABANI	TION. be timely filed from the mailing date of this com DONED (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on							
		is action is non-final.						
′—	Since this application is in condition for allow		s prosecution as to the r	nerits is				
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	, , , , ,		•				
4)🖾	Claim(s) 1-34 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdo							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-34</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction and	or election requirement.						
Applicati	on Papers							
9) 🗌 .	The specification is objected to by the Exami	ner.						
	The drawing(s) filed on is/are: a) a		the Examiner.					
	Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) i	s objected to. See 37 CFR	: 1.121(d).				
11)□.	The oath or declaration is objected to by the	Examiner. Note the attached O	ffice Action or form PTO	-152.				
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure ee the attached detailed Office action for a list	nts have been received. Ints have been received in Applority documents have been recall (PCT Rule 17.2(a)).	ication No ceived in this National St	age				
2) 🔲 Notice 3) 🔯 Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date 2/13/04,03/11/04		mary (PTO-413) ail Date nal Patent Application (PTO-1	52)				

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9, 11-15, 23-29, 31-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Dickmander.

Regarding claims 1, 23, 31, Dickmander discloses a system/method to determine the direction of a disturbance event in a power distribution system comprising a power feed bus (figure 1), a circuit monitor 22, the circuit monitor being responsive to detect the disturbance event by comparing a disturbance event signal with a pre-event signal on a plurality of time scales (abstract, column 2, lines 1-25, col. 4, lines 1-44).

Regarding claims 2, 24, Dickmander discloses the time scales including a cycleby-cycle time scale.

Regarding claims 3, 25, Dickmander discloses the cycle-by-cycle time scale being the time for the signal to go through one full cycle (abstract col. 2, lines 1-25, col. 4, lines 1-44).

Regarding claims 4, 26, Dickmander discloses a predetermined portion of the cycle (abstract col. 2, lines 1-25, col. 4, lines 1-44).

Regarding claims 5, 27, Dickmander discloses an individual point of the cycle (abstract col. 2, lines 1-25, col. 4, lines 1-44).

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Regarding claims 6, 28, Dickmander discloses the circuit monitor computing a confidence factor (col. 4, lines 1-40).

Regarding claim 7, Dickmander discloses an alarm channel 60.

Regarding claim 8, Dickmander discloses at least one coincident channel.

Regarding claim 9, Dickmander discloses measuring a voltage disturbance, a current disturbance, and a power disturbance (figure 1).

Regarding claims 11-13, Dickmander discloses an alarm channel 60.

Regarding claim 14, Dickmander discloses a system to determine the direction of a disturbance event in a power distribution system comprising a power feed bus (figure 1), a circuit monitor 22, the circuit monitor determining the direction of the disturbance event and computing a confidence factor (abstract, column 2, lines 1-25, col. 4, lines 1-44).

Regarding claims 15, 32, Dickmander discloses an agreement of voltage, current and power disturbance events (figure 1).

Regarding claim 29, Dickmander discloses a single circuit monitor (figure 1).

3. Claims 33-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Levert.

Regarding claim 33, Levert discloses a method comprising combining confidence values form a plurality of networked metering location in a power system and expressing a confidence in an analysis (figure 1).

Regarding claim 34, Levert discloses an agreement of voltage, current and power disturbance events (figure 2).

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Dickmander.

Regarding claim 10, Dickmander discloses all the claimed subject matter as set forth above in the rejection of claim 1, and further discloses the monitor measuring a signal to noise ratio and registering a disturbance event, but does not discloses the ratio being greater than 2. However, it would have been obvious to have the ratio being greater than 2 since it is not inventive to discover the optimum or workable ranges by routine experimentation.

6. Claims 16-22, 30, are rejected under 35 U.S.C. 103(a) as being unpatentable over Dickmander in view of Levert.

Regarding claims 16, 30, Dickmander discloses a power feed bus (figure 1), a circuit monitoring 22, each of the branch circuits providing electrical signal to a load, the monitor independently detecting a disturbance event and calculating a confidence factor (abstract, column 2, lines 1-25, col. 4, lines 1-44). Dickmander does not disclose a plurality of the branch circuits, each of the branch circuits having a branch circuit monitor. Levert teaches a plurality of the branch circuits, each of the branch circuits

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having a branch circuit monitor (figure 1). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include a plurality of the branch circuits, each of the branch circuits having a branch circuit monitor to the system of Dickmander as taught by Levert for the purpose of effectively determining a disturbance event.

Regarding claim 17, Levert discloses combining the confidence factors (fig. 2).

Regarding claims 18-19, Levert discloses calculating the confidence factors by one of the monitors (fig. 2).

Regarding claim 20, Dickmander discloses a power feed bus circuit monitor (abstract, column 2, lines 1-25, col. 4, lines 1-44).

Regarding claims 21-22, Dickmander discloses calculating a system confidence factor (abstract, column 2, lines 1-25, col. 4, lines 1-44).

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Driscoll and Dickens teach power line disturbance detector circuits.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh V. La whose telephone number is (571) 272-2970. The examiner can normally be reached on Mon-Fri from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffery Hofsass can be reached on (571) 272-2981. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANH V. LA PRIMARY EXAMINER

> Anh V La Primary Examiner Art Unit 2636

Al September 08, 2005